

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/062756 A3

(51) International Patent Classification⁷: HOIQ 13/08

(21) International Application Number:
PCT/US2004/040928

(22) International Filing Date:
7 December 2004 (07.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
200310123225.8
18 December 2003 (18.12.2003) CN

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

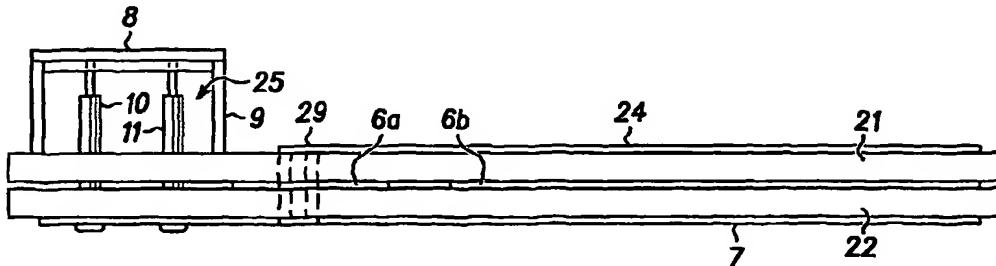
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
5 January 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: AN ANTENNA RADIATOR ASSEMBLY AND RADIO COMMUNICATIONS ASSEMBLY



(57) Abstract: An antenna radiator assembly (2) and radio communications assembly (1) comprising a circuit board (5) formed from dielectric layers dielectric layers (21, 22) supporting electrical conductors. The electrical conductors include a feed point conductive trace (23) and 10 conductive sheets (7, 24) comprising a ground plane. An antenna radiator element (8) is spaced from the circuit board (5) and when viewed in plan view there is an overlapping area (25) where most of a surface area of the antenna radiator element (8) overlaps a surface area of the circuit board (26) thereby forming a sandwiched dielectric region (15, 25). A feed point connector (11) couples the antenna radiator element (8) to the feed point conductive trace (23) and a ground connector (10) couples the antenna radiator element (8) to the ground plane. The circuit board dielectric layers (21, 22) in the sandwiched dielectric region (25) are disposed between the antenna radiator element (8) and (20) the ground plane.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/40928

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : HO1Q 13/08 US CL : 343/700MS,702,829:342/386 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 343/700MS.702, 829:342/386		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,006,859 A (Wong et al) 09 Apr 1991 (09.04. 1991), col. 3, lines 57 +	1-24
A	US 5,001,492 A (Shapiro et al) 19 Mar 1991 (19.03. 1991), whole document	1-24
A	US 5,488,380 A (Harvey et al) 30 Jan 1996 (30.01. 1996), whole document	1-24
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		See patent family annex.
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Date of the actual completion of the international search 15 September 2005 (15.09.2005)	Date of mailing of the International search report 02 NO 2005	
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